

This listing of claims replaces all prior versions, and listings of claims in the instant application:

**Listing of Claims:**

34. (Cancelled) Please cancel Claim 34, without prejudice.

35. (Cancelled) Please cancel Claim 35, without prejudice.

36. (Cancelled) Please cancel Claim 36, without prejudice.

37. (Cancelled) Please cancel Claim 37, without prejudice.

38. (Cancelled) Please cancel Claim 38, without prejudice.

39. (Cancelled) Please cancel Claim 39, without prejudice.

40. (Cancelled) Please cancel Claim 40, without prejudice.

Please add the following new Claims 41 to 55

41. (New) A data structure comprising:  
a data descriptor record, wherein said data descriptor record includes  
at least one addressing field, and  
a type field, wherein  
said type field is configured to indicate a data

structure type of a data storage structure, and  
said data storage structure is a data structure described  
by said data descriptor record.

42. (New) The data structure of claim 41, wherein said at  
least one addressing field comprises:

a base address field,  
an offset field, and  
a length field.

43. (New) The data structure of claim 42, wherein  
said data structure type is one of a contiguous buffer, a  
scatter-gather list and a linked list structure.

44. (New) The data structure of claim 42, wherein  
said base address field is configured to store a base  
address, said base address is a starting address of a secondary  
data structure associated with said data descriptor record, and  
said secondary data structure is said data storage  
structure.

45. (New) The data structure of claim 42, wherein  
said offset field is configured to indicate a starting  
address of data within a secondary data structure pointed to by  
a base address stored in said base address field, and  
said secondary data structure is said data storage  
structure.

46. (New) The data structure of claim 42, wherein

said length field is configured to indicate a length of data stored in a secondary data structure pointed to by a base address stored in said base address field, and said secondary data structure is said data storage structure.

47. (New) The data structure of claim 42, wherein said data descriptor record further comprises:  
a context field.

48. (New) The data structure of claim 47, wherein said context field is configured to store information regarding an address space type in which said data descriptor record exists.

49. (New) The data structure of claim 42, wherein said data descriptor record further comprises:  
an in-line data field, and  
an in-line data buffer, wherein said data structure is said data storage structure.

50. (New) The data structure of claim 49, wherein said in-line data field is configured to store information regarding said in-line data buffer.

51. (New) The data structure of claim 50, wherein said information regarding said in-line data buffer includes a value representing a length of said in-line data buffer.

52. (New) The data structure of claim 51, wherein said length of said in-line data buffer is capable of assuming only set values.

53. (New) The data structure of claim 52, wherein said value assumes a non-zero value to indicate that said in-line data buffer is used.

54. (New) The data structure of claim 51, wherein said in-line data buffer is a variable-length buffer.

55. (New) The data structure of claim 50, wherein said in-line data buffer is configured to store data contiguously with said data descriptor record.